

FEB 2 1 2002

TECH CENTER 1600/2900

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/981,947

DATE: 02/07/2002

TIME: 15:16:24

Input Set : N:\Crf3\RULE60\09981947.raw Output Set: N:\CRF3\02072002\1981947.raw

```
SEQUENCE LISTING
   (1) GENERAL INFORMATION:
        (i) APPLICANT: Tartaglia, Louis A.
 3
                        Weng, Xun
       (ii) TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING
 5
                                 GLUTEX AND USES THEREOF
      (iii) NUMBER OF SEQUENCES: 10
 6
       (iv) CORRESPONDENCE ADDRESS:
 7
 8
              (A) ADDRESSEE: Fish & Richardson P.C.
 9
             (B) STREET: 225 Franklin Street
10
             (C) CITY: Boston
11
             (D) STATE: MA
12
             (E) COUNTRY: USA
13
             (F) ZIP: 02110-2804
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C--> 20

(V) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Diskette
- (B) COMPUTER: IBM Compatible
- (C) OPERATING SYSTEM: Windows95
- (D) SOFTWARE: FastSEQ for Windows Version 2.0
- 19 (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US/09/981,947
- C--> 21 (B) FILING DATE: 18-Oct-2001
 - 23 (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 09/031,392
 - (B) FILING DATE:
 - 27 (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Meiklejohn, Ph.D., Anita L.
 - (B) REGISTRATION NUMBER: 35,283
 - (C) REFERENCE/DOCKET NUMBER: 07334/072002
 - 31 (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 617/542-5070
 - (B) TELEFAX: 617/542-8906
 - 34 (C) TELEX: 200154
 - (2) INFORMATION FOR SEQ ID NO: 1:
 - (i) SEQUENCE CHARACTERISTICS:
 - - (A) LENGTH: 2343 base pairs
 - 38 (B) TYPE: nucleic acid 39
 - (C) STRANDEDNESS: single
 - 40 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA 41
 - 42 (ix) FEATURE:
 - 43 (A) NAME/KEY: Coding Sequence
 - 44 (B) LOCATION: 73...1761

RAW SEQUENCE LISTING DATE: 02/07/2002 PATENT APPLICATION: US/09/981,947 TIME: 15:16:24

Input Set: N:\Crf3\RULE60\09981947.raw
Output Set: N:\CRF3\02072002\1981947.raw

45																		
46																		60
47	TCA	CTGA	GAC													TG GC		111
48	•	•		Me		La A	rg L	ys G	_	sn A	rg A	sn S		-	Iu L	eu Gl	.У	
49				ama	1	a	~~~		5	~~~	~~~	~~~		10				1.50
50		GTT																159
51	Leu	Val	Pro	Leu	Thr	Asp	_	Thr	Ser	His	Ala	_	Pro	Pro	GLY	Pro		
52		15					20					25						
53		AGG																.207
54		Arg	Ala	Leu	Leu		Cys	Asp	HIS	Leu		Ser	GLY	Val	Pro			
55	30					35					40	~~~				45		055
56		AGG																255
57	GTA	Arg	Arg	Arg		Asp	Trp	ser	Cys		Leu	Leu	val	Ата		Leu		
58	222		000		50		maa	mm.a	ama	55	000	m = 0		ama	60	ama		202
59	GCG																	303
60	Ата	Gly	Ата		GIY	ser	ser	Pne		Tyr	GLY	ryr	Asn		ser	vaı		
61	ата	3.300	000	65	3.00	000	ma a	3 m.a	70	000	m m m	m = 0		75	max	maa		251
62		AAT																351
63	vai	Asn		Pro	Thr	Pro	Tyr		гàг	Ата	Pne	туг		GIU	ser	тгр		
64	GA'A	202	80	C A M	003	ССП		85	010	003	03.0	3 O.M.	90	3 ОШ	стс	ama		200
65		AGA																399
66		Arg	Arg	HIS	GIY	arg		тте	Asp	Pro	ASP		Leu	THE	Leu	ьeu		
67 ·		95	CMC	3 CM	C III C	maa	100	mma	aaa	3.00.0	CCM	105	Omm.	CITIC	ccc	N C/C		447
68		TCT																447
69 70		Ser	Val	TIIT	vaı	115	тте	Pile	Ата	тте	_	GIY	ьец	Val	СТА	125		
70 71	110	א תוותו	CMC	220	a mc		CCA	7 7 C	C m m	Omm.	120	3.00	770	03.0	3 CIM			405
71 72		ATT																495
73	ьeu	Ile	vaı	гуу	130	116	GIY	гу	val	135	GTÀ	AIG	гуу	птъ	140	Leu		
74	. стс	GCC	ידי אי א	א א ידי		արգրար	CCA	አ ጥጥ	m/cm		CCA	TTTC	CTC	አጥር		TGC		543
75	*	Ala																743
76	Leu	hiu	11511	145	OLY	riic	niu	110	150	niu	ALU	пси	пси	155	niu	Cys		
77	ፕሮር	CTC	CAG		GGA	GCC	արարա	CAA		כיייכ	יוייוי ע	GTG	CGA		ጥጥ ር '	Δጥሮ		591
78		Leu						-										332
79	Der		160		011	1114	1110	165	1100	пси	110	, u _	170	**** 9	1110	110		
80	ATG	GGC		GAT	GGA	GGC	GTC		CTC	AGT	GTG	CTC		ATG	TAC	СТС		639
81		Glÿ																003
82		175		E	1	U -1	180					185			-1-			
83	AGT	GAG	ATC	TCA	CCC	AAG		ATC	CGT	GGC	тст		GGG	CAG	GTG	ACT		687
84		Glu																
85	190					195			5	1	200		1		,	205		
86		ATC	TTT	ATC	TGC		GGC	GTG	TTC	ACT		CAG	CTT	CTG	GGC			735
87		Ile															•	
88					210					215	. 4				220			
89	CCC	GAG	CTG	CTG		AAG	GAG	AGT	ACC		CCA	TAC	CTG	TTT		GTG		783
90		Glu																
91				225	4				230	•				235	- 4			
92	ATT	GTG	GTC	CCT	GCC	GTT	GTC	CAG		CTG	AGC	CTT	CCC		CTC	CCG		831,
93																Pro		

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	•																•	
94			240					245					250					
95			CCA														879)
96	Asp		Pro	Arg	\mathtt{Tyr}	Leu	Leu	Leu	Glu	Lys	His		Glu	Ala	Arg	Ala		
97		255					260					265						
98	GTG	AAA	GCC	TTC	CAA	ACG	TTC	TTG	GGT	AAA	GCA	GAC	GTT	TCC	CAA	GAG	927	1
99	Val	Lys	Ala	Phe	Gln	Thr	Phe	Leu	Gly	Lys	Ala	Asp	Val	Ser	Gln	Glu		
100	270)				275	;				280)				285		
101	GTA	GAG	GAG	GTC	CTG	GCI	' GAG	AGC	CAC	GTG	CAC	AGG	AGC	ATC	CGC	CTG	97	15
102	Val	Glu	ı Glu	Val	. Leu	ı Ala	Glu	Ser	His	Val	Glr	n Arg	Ser	Ile	Arg	Leu		
103					290)				295					300			
104	GTG	TCC	GTG	CTG	GAG	CTG	CTG	AGA	GCI	CCC	TAC	GTC	CGC	TGG	CAG	GTG	102	23
105	Val	. Ser	. Val	Leu	Glu	Leu	Leu	Arg	Ala	Pro	Tyr	. Val	Arg	Trp	Gln	Val		
106				305					310		-		_	315				
107 .	GTC	ACC	GTG	ATT	GTC	: ACC	ATG	GCC	TGC	TAC	CAG	CTC	TGT	GGC	CTC	AAT	107	11
108																Asn		
109			320					325		•			330					
110	GCA	ATI	TGG	TTC	TAT	' ACC	AAC	AGC	ATC	TTT	GGA	AAA	GCT	GGG	ATC	CCT	111	9
111																Pro		
112		335	_		-1-		340				1	345		1				
113	CCG			АТС	CCA	ТАС			ተጥር	AGT	ACA			АТС	GAG	ACT	116	57
114																Thr		
115	350		-1-			355					360	_	011		014	365		
116			' GCC	GTC	י ייייר			י ייירים	GTC	' Aጥጥ			СТС	GGA	CGG	AGA	121	5
117																Arg		
118				, , , ,	370		0-1			375			cu	011	380	_		
119	CCC	י פייים	י כידכ	י איים			արդիայի	GGG	СТС			י כיייכ	ייייירי	Մարդո		ACC	126	: 3
120																Thr		
121	110	LICU	LLCU	385	-	O L y	1110	. O-y	390		. Gry	пси	1110	395	_	1111		
122	CTC	י אכיכ	' ልጥር			. ACC	ርሞር	CAG			GCC	י כככ	ሞርር			TAC	131	1
123																Tyr	131	
124	100		400		ЦСИ		шеи	405	_	1115			410	vul	110	-1-		
125	СТС	ΣΔСΤ			GGC	יי דיים	СТС			ል ሞሮ	GCC	י ייירייי		ጥርር	ልርጥ	GGG	135	; a
126																Gly	133	
127	шси	415		vai	GLY	110	420		110	. 116	ALU	425		Cys	Der	GLY		
128	CCA			ΔͲϹ	CCC	ጥጥር			ልርጥ	ССТ	GAG			CAG	CAA	TCT	140	١7
129																Ser		,
130	430		Gry	116	. F10	435		пси	1111	СТУ	440		FIIC	GIII	GIII	445		
131			CCC	CCT				א יוייים ע	CCA	ccc			አአሮ	TIC C	CTC	TCC	145	: 5
132																	143	
132	GIII	ALY	PIO	Ата	450		116	116	нта	455		vaı	ASII	тгр		Ser		
134	770	mmm	CCE	- COURT			CITIC	mma	001			0.00	222	a com	460		150	
			GCT														150	3
135	ASII	Pne	Ala		_	ьeu	Leu	Pne			me	GIN	гĀг		Leu	Asp		
136	3.00		mam	465		ama.	mmm	a a m	470		mam		201	475	a a m	3.77.0	155	-
137			TGT														155	Τ.
138	Thr	ryr	Cys	ьпе	ьeu	val	ьиé			тте	cys	тте		GTA	ата	тте		
139	m - ~		480	m==	a=-	ama		485					490	m > -			4	
140			TAT														159	9
141	Tyr		Tyr	Phe	val	Leu			Thr	Lys	Asn	_	Thr	Tyr	Ala	GIu		
142		495			•		500			•		505						

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144																GAA Glu		1647
145		. 510					515					520					525	
146																TTC		1695
147		Lys	Ile	Asp	Ser		Val	Thr	Asp	Ala		Ala	Ser	Ser	Pro	Phe		
148		3 CI	000	3 3 C	3.63	530	maa	3.00	G1.1		535	000				540		1740
149																GCC		1743
150 151		THI	Pro	ASII	545	Ald	ттр	тте	GIII	550	Ата	Ата	THE	Thr	555		Thr	
151		AAA	אאא	CAA		CCA	ጥጥር	ጥአአ	N CCC		тстс	ביוי א יויי	יייי כי	מייר א			ATGACC	1799
153			Lys						ACGG.	ICA	1616	GIAI.	LI C	CICA	ACCI	G GA	AIGACC	1/33
154		2,5	275	560		110	LCu											
155		TTC	CCCT			rctc	CT G	GAGA	ACAC	CAA	GTCA!	TGAT	GTC	AGAC	AAG	AGCT'	TGGATT	1859
156																	AACAAG	1919
157	,	TAC'	TGAC	ATG '	rccc	ATATO	GT T	GTTT'	TACC	C AC	rggt:	ГАТА	CAA	rggg.	AGG	GAGA	GAGAGA	1979
158																	GTGGCT	2039
159		CAC	GCCT	GTA A	ATCC	CAGC	AC T	TTGG	GAGG	C CG	AGGT	GGGT	GGA!	TCGT	GAG	GTCA	GGAGAT	2099
160		TGAG	GACC	ATC (CTGG	CTAA	CA TO	GGTG	AAAC	r cc	CTCT	CTAC	TAA	AAAT	ACA	AAAA	ATTAGC	2159
161		TGA	GCAT(GGT (GGCG	GCG	CC T	GTAG'	rccc	A GC	TACT:	TGGG	AGG	CTGA	GGC .	AGGA	GAATGG	2219
162		CGT	GAAC	CCA (GGAG	GCGGZ	AG C	TTGC	AGTG	A GC	CGAG	ATCA	CAC	CACC	ACA	CTCC	AGCCTG	2279
163		GGT	GACA	GAG (CCAG	ACTC	CG T	CTCA	AAAA	A AA	AAAA	AAAA	AAA	AAAA	AAA	AAAA	GGGCGG	2339
164		CCG	C															2343
166	(2)	INFOR)ITAM	ON F	OR SI	EQ II	ОИ С	: 2:										
167		(i) 8	SEQUI	ENCE	CHAI	RACTI	ERIS'	FICS	:									
168					GTH:				cids									
169					E: ar													
170																		
						Z: 1:												
171		(ii) l	MOLE	CULE	TYPI	E: pi	rote:	in										
171 172		(v)	MOLE FRAGI	CULE MENT	TYPI TYPI	E: pi E: in	rote: nteri	in nal									• • •	
171 172 173		(v) 1 (xi) 8	MOLEO FRAGI SEQUI	CULE MENT ENCE	TYPI TYPI DESC	E: pi E: ir CRIPI	rote: nter: TION	in nal : SE(-			G1	T	01	T	17- T	Pers	
171 172 173 174		(v) (xi) S Met	MOLEO FRAGI SEQUI	CULE MENT ENCE	TYPI TYPI DESC	E: pi E: ir CRIPT Gln	rote: nter: TION	in nal : SE(-		Lys	Glu	Leu	Gly	Leu	Val	Pro	
171 172 173 174 175		(v) (xi) 8 Met	MOLEO FRAGI SEQUI Ala	CULE MENT ENCE Arg	TYPI TYPI DESC Lys	E: pi E: ir CRIPT Gln 5	rote: nteri TION Asn	in nal : SE(Arg	Asn	Ser	Lys 10			_		15		
171 172 173 174 175 176		(v) (xi) 8 Met	MOLEO FRAGI SEQUI Ala	CULE MENT ENCE Arg	TYPI TYPI DESC Lys	E: pi E: ir CRIPT Gln 5	rote: nteri TION Asn	in nal : SE(Arg	Asn	Ser	Lys 10			_	Gly			
171 172 173 174 175 176		(v) 1 (xi) 8 Met 1 Leu	MOLEO FRAGN SEQUI Ala Thr	CULE MENT ENCE Arg Asp	TYPI TYPI DESC Lys Asp 20	E: pi E: in CRIPT Gln 5 Thr	rote: nteri IION Asn Ser	in nal : SE(Arg His	Asn Ala	Ser Gly 25	Lys 10 Pro	Pro	Gly	Pro	Gly 30	15 Arg	Ala	
171 172 173 174 175 176 177		(v) 1 (xi) 8 Met 1 Leu	MOLEO FRAGN SEQUI Ala Thr	CULE MENT ENCE Arg Asp	TYPI TYPI DESC Lys Asp 20	E: pi E: in CRIPT Gln 5 Thr	rote: nteri IION Asn Ser	in nal : SE(Arg His	Asn Ala Arg	Ser Gly 25	Lys 10 Pro	Pro	Gly	Pro Gly	Gly 30	15	Ala	
171 172 173 174 175 176 177 178		(v) 1 (xi) 3 Met 1 Leu	MOLEO FRAGN SEQUI Ala Thr	CULE MENT ENCE Arg Asp Glu 35	TYPI TYPI DESC Lys Asp 20 Cys	E: pi E: ir CRIPT Gln 5 Thr	rote: ntern TION Asn Ser His	in nal : SEQ Arg His	Asn Ala Arg 40	Ser Gly 25 Ser	Lys 10 Pro Gly	Pro Val	Gly Pro	Pro Gly 45	Gly 30 Gly	15 Arg Arg	Ala Arg	
171 172 173 174 175 176 177 178 179		(v) 1 (xi) 3 Met 1 Leu	MOLEO FRAGN SEQUI Ala Thr Leu	CULE MENT ENCE Arg Asp Glu 35	TYPI TYPI DESC Lys Asp 20 Cys	E: pi E: ir CRIPT Gln 5 Thr	rote: ntern TION Asn Ser His	in nal : SEG Arg His Leu Ser	Asn Ala Arg 40	Ser Gly 25 Ser	Lys 10 Pro Gly	Pro Val	Gly Pro Ser	Pro Gly 45	Gly 30 Gly	15 Arg	Ala Arg	
171 172 173 174 175 176 177 178 179 180		(v) (xi) (xi) Met 1 Leu Leu Arg	MOLEG FRAGN SEQUI Ala Thr Leu Lys 50	CULE MENT ENCE Arg Asp Glu 35 Asp	TYPI TYPI DESC Lys Asp 20 Cys	E: process of the control of the con	rote: ntern FION Asn Ser His	in nal : SEG Arg His Leu Ser 55	Asn Ala Arg 40 Leu	Ser Gly 25 Ser Leu	Lys 10 Pro Gly Val	Pro Val Ala	Gly Pro Ser 60	Pro Gly 45 Leu	Gly 30 Gly Ala	15 Arg Arg Gly	Ala Arg Ala	
171 172 173 174 175 176 177 178 179 180 181		(v) (xi) (xi	MOLEG FRAGI SEQUI Ala Thr Leu Lys 50 Gly	CULE MENT ENCE Arg Asp Glu 35 Asp Ser	TYPI TYPI DESC Lys Asp 20 Cys Trp	E: process of the second secon	rote: ntern FION Asn Ser His Cys	in nal : SE(Arg His Leu Ser 55	Asn Ala Arg 40 Leu Gly	Ser Gly 25 Ser Leu Tyr	Lys 10 Pro Gly Val	Pro Val Ala Leu	Gly Pro Ser 60 Ser	Pro Gly 45 Leu Val	Gly 30 Gly Ala Val	15 Arg Arg	Ala Arg Ala Ala	
171 172 173 174 175 176 177 178 179 180		(v) (xi) (xi) (xi) (xi) (xi) (xi) (xi) (xi	MOLEGERAGN FRAGN SEQUI Ala Thr Leu Lys 50 Gly	CULE MENT ENCE Arg Asp Glu 35 Asp Ser	TYPI TYPI DESC Lys Asp 20 Cys Trp	E: process of the control of the con	rote ntern TION Asn Ser His Cys Leu 70	in nal : SEG Arg His Leu Ser 55	Asn Ala Arg 40 Leu Gly	Ser Gly 25 Ser Leu Tyr	Lys 10 Pro Gly Val Asn	Pro Val Ala Leu 75	Gly Pro Ser 60 Ser	Pro Gly 45 Leu Val	Gly 30 Gly Ala Val	15 Arg Arg Gly Asn	Ala Arg Ala Ala 80	
171 172 173 174 175 176 177 178 179 180 181 182 183		(v) (xi) (xi) (xi) (xi) (xi) (xi) (xi) (xi	MOLEGERAGN FRAGN SEQUI Ala Thr Leu Lys 50 Gly	CULE MENT ENCE Arg Asp Glu 35 Asp Ser	TYPI TYPI DESC Lys Asp 20 Cys Trp	E: process of the control of the con	rote ntern TION Asn Ser His Cys Leu 70	in nal : SEG Arg His Leu Ser 55	Asn Ala Arg 40 Leu Gly	Ser Gly 25 Ser Leu Tyr	Lys 10 Pro Gly Val Asn	Pro Val Ala Leu 75	Gly Pro Ser 60 Ser	Pro Gly 45 Leu Val	Gly 30 Gly Ala Val	15 Arg Arg Gly Asn	Ala Arg Ala Ala 80	
171 172 173 174 175 176 177 178 179 180 181 182 183		(v) (xi) (xi) (xi) (xi) (xi) (xi) (xi) (xi	MOLEGERAGN SEQUIFALA Thr Leu Lys 50 Gly Thr	CULE MENT ENCE Arg Asp Glu 35 Asp Ser Pro	TYPI TYPI DESC Lys Asp 20 Cys Trp Ser	E: pi E: in CRIPT Gln 5 Thr Asp Ser Phe Ile 85	rote: ntern TION Asn Ser His Cys Leu 70 Lys	in nal : SEG Arg His Leu Ser 55 Tyr Ala	Asn Ala Arg 40 Leu Gly Phe	Ser Gly 25 Ser Leu Tyr	Lys 10 Pro Gly Val Asn Asn	Pro Val Ala Leu 75 Glu	Gly Pro Ser 60 Ser Ser	Pro Gly 45 Leu Val	Gly 30 Gly Ala Val	15 Arg Arg Gly Asn Arg	Ala Arg Ala Ala 80 Arg	
171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186		(v) (xi) (xi) (xi) (xi) (xi) (xi) (xi) (xi	MOLEGERAGN SEQUIFALA Thr Leu Lys 50 Gly Thr	CULE MENT ENCE Arg Asp Glu 35 Asp Ser Pro	TYPI TYPI DESC Lys Asp 20 Cys Trp Ser	E: pi E: in CRIPT Gln 5 Thr Asp Ser Phe Ile 85	rote: ntern TION Asn Ser His Cys Leu 70 Lys	in nal : SEG Arg His Leu Ser 55 Tyr Ala	Asn Ala Arg 40 Leu Gly Phe	Ser Gly 25 Ser Leu Tyr	Lys 10 Pro Gly Val Asn Asn	Pro Val Ala Leu 75 Glu	Gly Pro Ser 60 Ser Ser	Pro Gly 45 Leu Val	Gly 30 Gly Ala Val	15 Arg Arg Gly Asn Arg	Ala Arg Ala Ala 80 Arg	
171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188		(v) (xi) (xi) (xi) (xi) (xi) (xi) (xi) (xi	MOLEGERAGN FRAGN SEQUIA Thr Leu Lys 50 Gly Thr	CULE MENT ENCE Arg Asp Glu 35 Asp Ser Pro Arg	TYPI TYPI DESC Lys Asp 20 Cys Trp Ser Tyr	E: pi E: in CRIPT Gln 5 Thr Asp Ser Phe Ile 85 Ile	rote: ntern TION Asn Ser His Cys Leu 70 Lys Asp	in nal : SEG Arg His Leu Ser 55 Tyr Ala	Asn Ala Arg 40 Leu Gly Phe Asp	Ser Gly 25 Ser Leu Tyr Tyr Thr 105	Lys 10 Pro Gly Val Asn 90 Leu	Pro Val Ala Leu 75 Glu Thr	Gly Pro Ser 60 Ser Ser	Pro Gly 45 Leu Val Trp Leu	Gly 30 Gly Ala Val Glu Trp 110	15 Arg Arg Gly Asn Arg	Ala Arg Ala Ala 80 Arg Val	
171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188		(v) (xi) (xi) (xi) (xi) (xi) (xi) (xi) (xi	MOLEGERAGN FRAGN SEQUIA Thr Leu Lys 50 Gly Thr Gly Val	CULE MENT ENCE Arg Asp Glu 35 Asp Ser Pro Arg Ser 115	TYPI TYPI DESC Lys Asp 20 Cys Trp Ser Tyr Pro 100 Ile	E: pi E: in CRIPT Gln 5 Thr Asp Ser Phe Ile 85 Ile Phe	rote: ntern fION Asn Ser His Cys Leu 70 Lys Asp Ala	in nal : SEG Arg His Leu Ser 55 Tyr Ala Pro	Asn Ala Arg 40 Leu Gly Phe Asp Gly 120	Ser Gly 25 Ser Leu Tyr Tyr Thr 105 Gly	Lys 10 Pro Gly Val Asn 90 Leu	Pro Val Ala Leu 75 Glu Thr	Gly Pro Ser 60 Ser Ser Leu Gly	Pro Gly 45 Leu Val Trp Leu Thr 125	Gly 30 Gly Ala Val Glu Trp 110 Leu	15 Arg Arg Gly Asn Arg 95 Ser Ile	Ala Arg Ala Ala 80 Arg Val	
171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188		(v) (xi) (xi) (xi) (xi) (xi) (xi) (xi) (xi	MOLEGERAGN SEQUIFALA Thr Leu Lys 50 Gly Thr Gly Val	CULE MENT ENCE Arg Asp Glu 35 Asp Ser Pro Arg Ser 115	TYPI TYPI DESC Lys Asp 20 Cys Trp Ser Tyr Pro 100 Ile	E: pi E: in CRIPT Gln 5 Thr Asp Ser Phe Ile 85 Ile Phe	rote: ntern fION Asn Ser His Cys Leu 70 Lys Asp Ala	in nal : SEG Arg His Leu Ser 55 Tyr Ala Pro Ile Leu	Asn Ala Arg 40 Leu Gly Phe Asp Gly 120	Ser Gly 25 Ser Leu Tyr Tyr Thr 105 Gly	Lys 10 Pro Gly Val Asn 90 Leu	Pro Val Ala Leu 75 Glu Thr	Gly Pro Ser 60 Ser Ser Leu Gly	Pro Gly 45 Leu Val Trp Leu Thr 125	Gly 30 Gly Ala Val Glu Trp 110 Leu	15 Arg Arg Gly Asn Arg 95 Ser	Ala Arg Ala Ala 80 Arg Val	
171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188		(v) (xi) (xi	MOLEGERAGN SEQUIFALA Thr Leu Lys 50 Gly Thr Gly Val Met 130	CULE MENT ENCE Arg Asp Glu 35 Asp Ser Pro Arg Ser 115 Ile	TYPI TYPI DESC Lys Asp 20 Cys Trp Ser Tyr Pro 100 Ile	E: pi E: in CRIPT Gln 5 Thr Asp Ser Phe Ile 85 Ile Phe	rote ntern TION Asn Ser His Cys Leu 70 Lys Asp Ala	in nal : SEG Arg His Leu Ser 55 Tyr Ala Pro Ile Leu 135	Asn Ala Arg 40 Leu Gly Phe Asp Gly 120 Gly	Ser Gly 25 Ser Leu Tyr Tyr Thr 105 Gly Arg	Lys 10 Pro Gly Val Asn 90 Leu Leu	Pro Val Ala Leu 75 Glu Thr Val	Gly Pro Ser 60 Ser Ser Leu Gly Thr 140	Pro Gly 45 Leu Val Trp Leu Thr 125 Leu	Gly 30 Gly Ala Val Glu Trp 110 Leu	15 Arg Arg Gly Asn Arg 95 Ser Ile	Ala Arg Ala Ala 80 Arg Val Val Asn	

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Output Set: N:\CRF3\02072002\I981947.raw

100																
193	145			•		150	_		_		155		_		_	160
194	Ala	Gly	Ala	Phe		Met	Leu	Ile	Val	_	Arg	Phe	Ile	Met	_	Ile
195		_	_	_	165			-1		170					175	
196	Asp	Gly	Gly		Ala	Leu	Ser	۷al		Pro	Met	Tyr	Leu		Glu	Ile
197				180					185					190		
198	Ser	Pro		Glu	Ile	Arg	Gly		Leu	Gly	Gln	Val	Thr	Ala	Ile	Phe
199			195					200					205			
200	Ile	Cys	Ile	Gly	Val	Phe	Thr	Gly	Gln	Leu	Leu	Gly	Leu	Pro	Glu	Leu
201		210					215					220				
202	Leu	Gly	Lys	Glu	Ser	Thr	Trp	Pro	Tyr	Leu	Phe	Gly	Val	Ile	Val	Val
203	225					230					235					240
204	Pro	Ala	Val	Val	Gln	Leu	Leu	Ser	Leu	Pro	Phe	Leu	Pro	Asp	Ser	Pro
205					245					250					255	
206	Arg	Tyr	Leu	Leu	Leu	Glu	Lys	His	Asn	Glu	Ala	Arg	Ala	Val	Lys	Ala
207				260					265					270	_	
208	Phe	Gln	Thr	Phe	Leu	Gly	Lys	Ala	Asp	Val	Ser	Gln	Glu	Val	Glu	Glu
209			275			_	_	280	_				285			
210	Val	Leu	Ala	Glu	Ser	His	Val	Gln	Arq	Ser	Ile	Arq	Leu	Val	Ser	Val
211		290					295					300				
212	Leu	Glu	Leu	Leu	Arq	Ala	Pro	Tyr	Val	Arq	Trp	Gln	Val	Val	Thr	Val
213	305				_	310		-		,	315			_		320
214	Ile	Val	Thr	Met	Ala	Cvs	Tvr	Gln	Leu	Cvs	Glv	Leu	Asn	Ala	Ile	
215					325	- 2 -	-1-			330	1				335	E
216	Phe	Tvr	Thr	Asn		Ile	Phe	Glv	Lvs		Glv	Ile	Pro	Pro		Lvs
217		- 1 -		340				0-1	345					350		2,2
218	Tle	Pro	Tvr		Thr	Leu	Ser	Thr		.Glv	Tle	Glu	Thr		Δla	Δla
219			355	, 41		Deu	DCI	360	O ₁	G I J	110	O_Lu	365	Dea	mu	1114
220	Val	Phe		Glv	T.011	Val	T1_		Нic	T.Q11	Glv	Δra	Arg	Dro	Τ.Δ11	T.All
221	,	370	001		Lea	, 41	375	OIU		LCu	OI J	380	111.9	110	БСи	пси
222	Tle		Glv	Dho	Glv	T.eu		G1v	T.Qu	Dho	Dha		Thr	Τ.Δ11	Thr	T10
223	385	OLY	017	1110	OLY	390	IIC C	GLY	пси	1110	395	GLY	1111	пец	1111	400
224		Τ.Δ11	Thr	T.011	Gln		Hic	λla	Dro	Ψтъ		Dro	Tyr	T.Ou	Sor	
225		нси	1111	БСи	405	пор	1115	HIU	110	410	Vai	110	1 Y 1	шеи	415	110
226	Val	Clv	Tlo	Τ.Διι		Tlo	T10	λla	Sor		Cve	Car	Gly	Dro		C117
227	, u	O _T	110	420	niu	110	116	AIU	425	riic	Cys	261	GIY	430	GLY.	GIY
228	Tla	Dro	Dho		T.Ou	Thr	C1 v	Glu		Dho	Gln.	Cln	Ser		7 xa	Dro
229	116	FIU	435	TTE	Leu	. 1111	GLY	440	Pile	riie	GIII	GIII	445	GIII	ALG	PIO
230	712	715		T.I.A	Tla	 7 1 2	C1		17-1	N an	m~~	T 0.11	Ser	7 an	Dho	7 1 0
231	нта	450	Pile	116	116	нта	455	THE	vai	ASII	тър		ser	ASII	Pne	Ald
	1701		T 0	T 0	Dha	Dma		T1.	01 -	T		460	3	mb	m	G
232 233		СТА	ьeu	ьeu	Pne		Pne	TTE	GIII	гла		Leu	Asp	Thr	туг	_
	465	T	17- 7	Dh.	n1	470	- 1 -	G	-1-	m1	475	. 1 -	- 77 -		•	480
234	Pne	Leu	vaı	Pne		Thr	TTE	Cys	TTE		GLY	Ата	Ile	Tyr		Tyr
235	D1	77- 7	T		485	ml	_		_	490	_				495	~ 3
236	Pne	val	Leu		GLu	Thr	Lys	Asn		Thr	Tyr	Ala	Glu		Ser	GIn
237		_,	_	500	_	_	_		505	_	_	_ •		510		_
238	АТа	ьиe		гйг	Arg	Asn	ràs		Tyr	Pro	Pro	GLu	Glu	гĀг	Iте	Asp
239			515		_		_	520	_	_	_		525	_,	_	_
240	Ser		Val	Thr	Asp	Ala		Ala	Ser	Ser	Pro		Thr	Thr	Pro	Asn
241		530					535	•			•	540	**			

VERIFICATION SUMMARY

DATE: 02/07/2002 PATENT APPLICATION: US/09/981,947 TIME: 15:16:25

Input Set : N:\Crf3\RULE60\09981947.raw Output Set: N:\CRF3\02072002\I981947.raw

L:20 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:21 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:] L:598 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8 L:608 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9 L:619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10